

PolyOne Geon™ Vinyl Rigid Extrusion 87850 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

Material Notes:

The Cell Classification was determined using the notched Izod test with injection molded samples. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-87850-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	15 sec; ASTM D2240
Tensile Strength, Yield	43.4 MPa	6290 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	70.3 MPa	10200 psi	ASTM D790
Flexural Modulus	2.45 GPa	355 ksi	ASTM D790
Izod Impact, Notched	6.30 J/cm	11.8 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	7.20 J/cm	13.5 ft-lb/in	
Dart Drop Total Energy	65.4 J/cm	0.123 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	130 J/cm	0.244 ft-lb/mil	
Dart Drop Total Energy	65.4 J/cm	0.123 ft-lb/mil	Procedure B, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	130 J/cm	0.244 ft-lb/mil	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.0 µm/m-°C	40.6 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	67.8 °C	154 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	188 - 204 °C	370 - 399 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Sheet Extrusion	
PVC Cell Classification	1-41332-23	ASTM D4216
	15343	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	General Purpose	
	Outdoor Applications	

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